

**S1 Table.** Summary of sequencing metrics

Patient ID	Sample source	Time point	Total read	Aligned (%)	Dup rate (%)	Unique read	Mean target coverage	On target rate (%)
P127	WBC	N001	46,144,868	95.94	58.71	19,054,622	5,576.06	11.05
P127	Plasma	S001	41,677,962	85.2	34.65	27,234,720	6,748.17	15.33
P152	WBC	N001	42,454,262	97	57.07	18,224,662	5,477.08	11.9
P152	Plasma	S001	30,015,920	87.62	33.71	19,896,848	5,257.35	16.36
P152	Plasma	S002	26,978,486	83.66	25.83	20,010,814	5,183.19	18.54
P152	Plasma	S003	22,382,364	86.6	25.72	16,624,542	4,659.73	19.46
P205	WBC	N001	45,512,108	95.09	56.64	19,734,688	4,947.76	10.08
P205	Plasma	S001	35,178,838	85.34	29.5	24,801,116	6,492.69	17.51
P205	Plasma	S002	28,393,932	83.89	25.9	21,038,670	5,432.4	18.4
P205	Plasma	S003	31,589,770	84.77	26.62	23,179,436	6,068.1	18.37
P223	WBC	N001	42,500,970	94.92	58.02	17,842,284	5,179.69	11.26
P223	Plasma	S001	18,709,666	81.5	29.59	13,173,560	3,266.36	17.33
P223	Plasma	S002	28,097,922	96.71	24.51	21,210,358	7,101.15	21.04
P236	WBC	N001	38,979,328	94.44	32.73	26,222,310	8,384.37	19.92
P236	Plasma	S001	19,857,388	82.07	29.27	14,044,536	3,584.18	17.75
P297	WBC	N001	45,938,582	96.96	54.58	20,864,978	5,592.82	10.92
P297	Plasma	S001	45,848,468	87.32	29.21	32,457,150	7,984.11	16.12
P297	Plasma	S002	25,540,178	87.48	27.01	18,642,252	5,261.06	19.08
P343	WBC	N001	47,354,046	96.67	59.21	19,314,400	5,871.3	11.23
P343	Plasma	S001	20,580,264	82.4	31.88	14,019,048	3,517.68	16.87
P344	WBC	N001	42,635,114	96.92	57.91	17,943,622	5,503.9	11.69
P344	Plasma	S001	22,015,008	81.04	25.5	16,402,122	4,232.56	19.33
P373	WBC	N001	43,263,296	96.4	57.55	18,363,940	5,619.89	11.79
P373	Plasma	S001	23,743,322	85.84	27.83	17,135,986	3,634.14	14.57
P381	WBC	N001	47,791,376	96.77	60.32	18,961,612	5,629.42	10.63
P381	Plasma	S001	27,935,090	86.63	25.96	20,683,398	5,817.28	19.4
P381	Plasma	S002	31,246,184	86.1	21.49	24,532,284	6,911.33	20.72
P381	Plasma	S003	30,895,630	88.88	22.76	23,863,006	6,908.51	20.33
P387	WBC	N001	45,437,510	96.8	59.72	18,302,588	5,568.64	10.99
P387	Plasma	S001	30,996,444	84.03	26.03	22,927,790	5,828.02	18.18
P397	WBC	N001	45,963,936	97.09	61.07	17,892,636	5,473.63	10.69
P397	Plasma	S001	50,487,484	86.75	26.03	37,343,332	9,475.8	17.49
P425	WBC	N001	43,234,538	95.09	56.49	18,809,606	5,387.85	11.54

P425	Plasma	S001	48,898,060	82.99	26.83	35,779,608	9,021.79	17.9
P448	WBC	N001	41,603,336	96.24	57.51	17,676,120	5,330.63	11.69
P448	Plasma	S001	43,841,404	87.42	29.24	31,022,650	8,683.84	18.29
P484	WBC	N001	42,483,306	95.86	59.28	17,299,788	5,041.14	10.78
P484	Plasma	S001	20,075,506	82.86	32.15	13,620,392	3,373	16.36
P497	WBC	N001	39,600,798	97.12	58.65	16,375,758	5,012.63	11.35
P497	Plasma	S001	16,997,664	83.75	33.78	11,255,380	2,838.98	16.15
P520	WBC	N001	18,259,132	96.81	52.04	8,757,168	2,772.51	13.65
P520	Plasma	S001	44,496,676	83.16	28.05	32,014,014	8,108.85	17.66
P524	WBC	N001	37,319,278	96.19	52.86	17,591,324	5,422.04	13.22
P524	Plasma	S001	60,755,554	86.72	36.01	38,876,664	10,145.72	15.53
P529	WBC	N001	37,579,312	96.92	54.2	17,212,168	5,264.58	12.66
P529	Plasma	S001	38,011,458	86.66	36.56	24,114,758	6,298.12	15.45
P543	WBC	N001	44,099,600	97.98	33.61	29,278,988	9,777.23	19.82
P543	Plasma	S001	32,649,544	86.15	39.25	19,836,064	4,909.35	14.08
P543	Plasma	S002	13,024,992	86.24	28.57	9,303,874	2,519.46	18.17
P543	Plasma	S003	31,393,982	91.38	27.06	22,897,932	6,893.98	19.34
P570	WBC	N001	43,304,552	96.94	53.92	19,954,226	6,301.86	13.07
P570	Plasma	S001	54,819,380	85.99	38.02	33,979,618	8,570.98	14.68
P582	WBC	N001	42,197,522	96.75	51.91	20,294,554	6,164.22	13.33
P582	Plasma	S001	31,524,926	88.46	42.79	18,034,210	4,652.86	13.46
P582	Plasma	S002	37,934,990	83.95	23.22	29,125,580	7,364.51	18.63
P582	Plasma	S003	33,271,288	82.37	19.73	26,707,236	6,634.21	19.53
P583	WBC	N001	41,720,230	96.91	53.22	19,518,732	6,107.92	13.26
P583	Plasma	S001	34,134,452	89.58	37.69	21,269,842	5,619.86	15.02
P586	WBC	N001	37,718,412	97.21	53.97	17,362,244	5,505.93	13.1
P586	Plasma	S001	29,469,584	88.53	44.06	16,485,368	4,278.33	13.24
P586	Plasma	S002	30,518,894	83.79	23.72	23,279,886	6,065.16	19.17
P586	Plasma	S003	31,803,644	86.91	24.24	24,092,934	6,469.28	18.88
P596	WBC	N001	37,526,076	96.85	52.69	17,754,816	5,390.02	13.11
P596	Plasma	S001	38,176,322	86	37.13	23,999,866	6,205.27	15.23
P596	Plasma	S002	32,117,650	84.58	23.41	24,600,380	6,339.46	18.81
P596	Plasma	S003	22,293,878	85.21	24.29	16,878,096	4,545.71	19.35
P61	WBC	N001	37,972,618	97.67	32.63	25,581,734	8,378.14	19.81
P61	Plasma	S001	43,366,768	85.5	32.28	29,369,838	7,789.03	16.93
P627	WBC	N001	40,428,270	96.48	51.18	19,738,012	6,194.78	13.93

P627	Plasma	S001	41,369,830	88.65	42.29	23,872,682	6,147.11	13.63
P627	Plasma	S002	24,423,330	83.45	24.36	18,474,202	4,861.92	19.24
P627	Plasma	S003	27,788,292	90.04	24.03	21,109,854	6,275.2	20.27
P628	WBC	N001	32,989,014	95.53	46.56	17,630,356	5,347.4	15.13
P628	Plasma	S001	35,811,744	87.08	40.63	21,259,718	5,404.52	14.07
P628	Plasma	S002	21,291,900	83.78	23.13	16,367,296	4,239.69	19.18
P628	Plasma	S003	29,453,950	89.99	24.53	22,228,938	6,527.14	19.82
P63	WBC	N001	40,570,406	97.66	32.54	27,370,452	9,160.87	20.21
P63	Plasma	S001	50,141,646	83.78	29.1	35,549,830	9,232.6	17.7
P631	WBC	N001	38,628,066	95.02	46.68	20,598,400	6,135.96	14.92
P631	Plasma	S001	34,491,164	86.43	40.95	20,367,384	5,001.99	13.63
P635	WBC	N001	36,260,424	92.8	43.71	20,411,104	5,887.31	15.63
P635	Plasma	S001	36,425,770	86.28	39.23	22,134,926	5,487.63	14.09
P645	WBC	N001	35,220,060	94.43	42.92	20,102,534	6,228.89	16.56
P645	Plasma	S001	63,629,260	83.86	36.14	40,632,302	10,067.06	15.2
P667	WBC	N001	34,269,262	96.13	47.16	18,107,474	5,614.54	15.16
P667	Plasma	S001	38,712,590	87.69	38.06	23,976,710	6,378.03	15.19
P667	Plasma	S002	26,063,272	82.64	23.17	20,024,224	5,187.9	19.45
P667	Plasma	S003	35,314,438	81.86	22.58	27,340,894	6,870.37	19.15
P732	WBC	N001	36,767,008	96.02	47.48	19,310,106	5,930.56	14.88
P732	Plasma	S001	5,722,312	74.01	28.65	4,082,916	802	15.49
P741	WBC	N001	34,594,930	95.79	44.22	19,297,922	5,905.47	15.85
P741	Plasma	S001	35,532,718	88.13	41.07	20,939,700	5,157.26	13.67
P764	WBC	N001	36,200,406	96.03	47.5	19,005,470	5,935.26	15.11
P764	Plasma	S001	55,786,198	87.69	70.76	16,309,508	2,261.7	3.74
P764	Plasma	S002	22,866,596	84.42	22.03	17,829,990	4,864.41	20.46
P764	Plasma	S003	31,710,014	83.2	24.44	23,958,772	6,165.12	18.81
P768	WBC	N001	40,086,544	95.76	47.21	21,162,184	6,331.4	14.86
P768	Plasma	S001	57,145,618	85.28	36.91	36,053,388	8,989.9	15.02
P771	WBC	N001	33,841,028	96.22	45.78	18,350,016	5,853.66	15.78
P771	Plasma	S001	37,051,544	84.21	35.5	23,897,248	6,114.33	15.82
P775	WBC	N001	33,261,956	96.23	45.48	18,133,206	5,801.96	15.76
P775	Plasma	S001	34,977,636	86.7	40.47	20,820,628	5,183.94	13.88
P790	WBC	N001	32,905,808	95.78	45.06	18,078,892	5,566.36	15.71
P790	Plasma	S001	39,081,464	88.47	41.86	22,720,532	5,719.35	13.41

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WBC, white blood cell.